

Title (en)

ASSESSING MACHINE TRAJECTORIES FOR COLLISION AVOIDANCE

Title (de)

BEURTEILUNG VON MASCHINENWEGEN ZUR KOLLISIONSVERMEIDUNG

Title (fr)

ÉVALUATION DE TRAJECTOIRES DE MACHINE POUR UN ÉVITEMENT DE COLLISION

Publication

EP 3028102 B1 20230906 (EN)

Application

EP 14831436 A 20140731

Priority

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- US 2014049097 W 20140731

Abstract (en)

[origin: WO2015017639A1] Disclosed are various embodiments for assessing machine trajectories for collision avoidance. A three-dimensional model of a patient based at least in part on data received from a three-dimensional imaging device is generated. The three-dimensional model of the patient is aligned with a coordinate system of a three-dimensional model of a radiation treatment machine. It is then determined whether a collision between the patient and the radiation treatment machine will occur at each one of a series of control points of the radiation treatment plan.

IPC 8 full level

G05B 19/18 (2006.01); **A61N 5/10** (2006.01)

CPC (source: EP US)

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Citation (examination)

- WO 2012137116 A1 20121011 - KONINKL PHILIPS ELECTRONICS NV [NL], et al
- THOMAS JUND ET AL: "Particle-based forecast mechanism for continuous collision detection in deformable environments", 20091005; 1077952576 - 1077952576, 5 October 2009 (2009-10-05), pages 147 - 158, XP058313901, ISBN: 978-1-60558-711-0, DOI: 10.1145/1629255.1629274

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